

[1]  
THE  
SECOND BOOK  
OF  
OPTICKS.  
PART I.

*Observations concerning the Reflexions, Refractions, and  
Colours of thin transparent Bodies.*

IT has been observed by others that transparent Substances, as Glafs, Water, Air, &c. when made very thin by being blown into Bubbles, or otherwise formed into Plates, do exhibit various Colours according to their various thinness, although at a greater thickness they appear very clear and colourless. In the former Book I forbore to treat of these Colours, because they seemed of a more difficult consideration, and were not necessary for establishing the Properties of Light there discoursed of. But because they may conduce to further discoveries for completing the Theory of Light, especially as to the constitution of the parts of natural Bodies, on which their Colours or Transparency depend; I have here set down an account of them. To render this Discourse short and distinct, I have first described the principal of my

A a

Obser-